

OTHER INFORMATION: /note="Convicillin from P. sativum"
US-07-955-905A-25

Query Match 23.2%; Score 821.5; DB 1; Length 571;
Best Local Similarity 31.0%; Pred. No. 7,2e-67;
Matches 211; Conservative 112; Mismatches 205; Indels 153; Gaps 19;

```

QY 11 LFLFLSLSTTVSLAESEFDRQYEERKRCMOLETSQMRRCVSOCDRPEEDIDW- 69
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 12 LFLGLIILASVCVTA-----NYDEGS---ETRVGQRGRGQEGEKKRIGEMR 60
QY 70 SKDNOEDPOTECQCCQRCRQOESCPROQYQCRCKELCEEEERYNRQRPQOQTEOC 129
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 61 PSYKEEHE-----EKKQRYRYOREKKEQ----- 84
QY 130 QKHCQRREPRIMQTCQRCERREYERKRRKQKRYEEOQREDEEYEEEMKEDNRDP 189
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 85 -----KEYQPG-----RRWERE-----EDEQVEEEMRQSORREDP 116
QY 190 QOREYEDCRRRCBOEPROQHOCQRCREQQRQHGQGMNFORGSGRYEEGEESQSD 249
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 117 EER-----ARLHRREERTKDR-----RHQREGEESERSSQGEHR 152
QY 250 NPYFDERSLSTRFTEEGHISYLENFYGRSKLLRALKNRYLLANPNAYVLP7HIDA 309
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 153 NPELFSKNFELTFENENGRIRLOFDRKSDLEFENLQNYRLVEYRAKPTIPLPHIDA 212
QY 310 DALLVIGRGALKMIHNDRESYNLECGDVIRIPAGTFYLLINRDNNEHLIAKFLQTI 369
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 213 DILLVVLNGKAILTVLSPNDRNSYNLERGDTIKIPAGTTSYLVNODDEDLRVVDVIVY 272
QY 370 SPFGQKEFFPAGQNPPEYLTSTFESKILEALNTQTEKLRGV----- 413
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 273 NRGKFEAF--GLSEKKNQYLGRGSKNILEASINTKYETIEKVLLEQEKKPOQLDRKR 330
QY 414 ----GOOREGVIIRASQDQIRELTRDSESRHWHIRRGESSRQPYLNFNRPILYSNKYG 470
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 331 TOGGEERD-AIKVSREOEIELEKLAKSSS---KSLSEFEPEFLRSIKRPEYSKFGK 365
QY 471 AVEKPE-DYROLQMDLVSFIANVTQSGMGPFFNTRSTKVVVAVSGEADVEMACP7HS 529
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 386 LEFTTEPEKTPQLODDIDIVSCVEIKNGKALMLPHYSRAIVLVLLVEGKNLLEL----- 440
QY 530 GRHGGGCGKRHEEEDV---DVHYEQVARLSKREALIVLAGHPVYVSSGNEMLLL 582
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 441 -----GLKNQOEREDKERNEVQREYEARLSPGDVYIIPAGHPVAISASNLML- 491
QY 583 FARGIAQNNHNEFLAGRENVVLOQIEPQAMELAFAPRKEVEESNSQDOSIFFG-PR 641
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 492 -GFGIAKNNNORFELSGSDNVISQIENPVKELTFPGSSQEVNRLIKOKSHFASAEPE 550
QY 642 OHQOQSPRSTRKQOQPLVSIID 662
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 551 QKEESOR---KPSPLSVLD 568

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RESULT 6
US-07-955-905A-26
Sequence 26, Application US/07955905A
Patent No. 5770433

GENERAL INFORMATION:

APPLICANT: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND

TITLE OF INVENTION: PRECURSOR

NUMBER OF SEQUENCES: 28

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/955,905A

FILING DATE: 21-JAN-1993
CLASSIFICATION: 435
INFORMATION FOR SEQ ID NO: 26:
SEQUENCE CHARACTERISTICS:
LENGTH: 410 amino acids
TYPE: amino acid

MOLECULE TYPE: protein

ORGANISM: Pism sativum

FEATURE:

NAME/KEY: Protein

LOCATION: 1..410

OTHER INFORMATION: /note="vicillin from P. sativum"
US-07-955-905A-26

Query Match 19.7%; Score 699.5; DB 1; Length 410;
Best Local Similarity 36.9%; Pred. No. 6,4e-56;
Matches 147; Conservative 79; Mismatches 143; Indels 29; Gaps 5;

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QY 249 DNPYFDERSLSTRFTEEGHISYLENFYGRSKLLRALKNRYLVLEANDPNAYVLP7HID 308
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 20 ENPFITKSNRFQTLLENENGHIRLQFKDRSKIFENLQNYRLLEYKSRPHILFLPQITD 79
QY 309 ADAILLVIGRGALKMIHNDRESYNLECGDVIRIPAGTFYLLINRDNNEHLIAKFLQTI 368
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 80 ADTILVLSGKATLVTKLSNDRNSFNLERGDAIKLPAGSIAYFANDDNEPRVLDLAI 139
QY 369 ISTPGQKEFFPAGQNPPEYLTSTFESKILEALNTQTEKLRGVFCQOR----- 417
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 140 VNKPGQLQSLSTGTONKSSLSGFSKNLEAFNPNYEIEKVLLEQOEOEPORRSRK 199
QY 418 -----EGVIIRASQDQIRELTRDSESRHWHIRRGESSRQPYLNFNRPILYSNKYG 469
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 200 DRQELINEENVLYKVSROQIEELSKNAKSSS-----KSYSSBEGPPLNLRNP7YSNKYG 255
QY 470 QAVEKPEDEYROLQMDLVSFIANVTQSGMGPFFNTRSTKVVVAVSGEADVEMACP7HS 529
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 256 KFEFTPEKQLODDIDIVNSVDIKYGSILLPNYSRAIVYTVYEGKDFELVQGR-- 313
QY 530 GRHGGGCGKRHEEEDV---HYEQVARLSKREALIVLAGHPVYVSSGNEMLLLFARGI 587
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 314 NENQKENDKEEEOEETSKOVQYLRAKLSPGDVFYIIPAGHPVAINASDNLML--GLGI 371
QY 588 NAQNNHNEFLAGRENVVLOQIEPQAMELAFAPRKEVE 625
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 372 NAEENENFLAGHEDNVISOVERPVKELAFPGSSHEVD 409

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RESULT 7
US-07-955-905A-27
Sequence 27, Application US/07955905A
Patent No. 5770433

GENERAL INFORMATION:

APPLICANT: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND

TITLE OF INVENTION: PRECURSOR

NUMBER OF SEQUENCES: 28

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/955,905A

FILING DATE: 21-JAN-1993

CLASSIFICATION: 435

INFORMATION FOR SEQ ID NO: 27:

SEQUENCE CHARACTERISTICS:

LENGTH: 421 amino acids

TYPE: amino acid

TOPOLOGY: linear


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Query Match          4.0%; Score 143; DB 1; Length 303;
Best Local Similarity 24.6%; Pred. No. 3.6e-05;
Matches 52; Conservative 46; Mismatches 87; Indels 26; Gaps 10;

OY 32 DROEYECRQ---CMQLETS---GOMRRC--VSQCDKRFEE-----DIDMSKYDNOEDP 78
      | : : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 97 DDDDLDECSQOEERCPYLAKTLCVHYLKICDGDIDCGDGSDEMNACADDEVITSINGNESI 156
      | : : | | | | | | | | | | | | | | | | | | | | | | | | | | | |

OY 79 QTECQOCQRCRQOESGP--RQOQYQRR--CKEICEEBE--EYNNRQDRPOQOYEQCKHC 133
      | : : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 157 NIRCDDPQFRC---ENGKIAQIDRCNRKIDCDGDTETTCCEYFVALQOARGVTVQDNA 213
      | : : | | | | | | | | | | | | | | | | | | | | | | | | | | | |

OY 134 QRETEPRHMQTCQRCER--RYEKERKQOKRYEEOQREDEEYERMKEDNKKRDPQOR 192
      | : : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 214 IRDELPNTVSMQKYDQVKEDKERMRMOEEERLREYEOIQKLRQEBERERQEOE 273
      | : : | | | | | | | | | | | | | | | | | | | | | | | | | | | |

OY 193 EYEDCRRCEQOEPRQOHCQLCRCRQORH 223
      | : : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 274 RQKERERMRQERIRQEYD---EKERQRY 300
      | : : | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESULT 13
US-08-459-019A-2
; Sequence 2, Application US/08459019A
; Patent No. 5686080
; GENERAL INFORMATION:
; APPLICANT: Tripp, Cynthia A.
; APPLICANT: Grievé, Robert B.
; TITLE OF INVENTION: NOVEL PARASITIC HELMINTH P4 PROTEINS
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Sheridan Ross & McIntosh
; STREET: 1700 Lincoln Street, #3500
; CITY: Denver
; STATE: CO
; COUNTRY: U.S.A.
; ZIP: 80203
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/459,019A
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Connell, Gary J.
; REGISTRATION NUMBER: 33,020
; REFERENCE/DOCKET NUMBER: 2618-13-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (303) 863-9700
; TELEFAX: (303) 863-0223
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 303 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-459-019A-2

Query Match          4.0%; Score 143; DB 1; Length 303;
Best Local Similarity 24.6%; Pred. No. 3.6e-05;
Matches 52; Conservative 46; Mismatches 87; Indels 26; Gaps 10;
```

```
OY 79 QTECQOCQRCRQOESGP--RQOQYQRR--CKEICEEBE--EYNNRQDRPOQOYEQCKHC 133
      | : : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 157 NIRCDDPQFRC---ENGKIAQIDRCNRKIDCDGDTETTCCEYFVALQOARGVTVQDNA 213
      | : : | | | | | | | | | | | | | | | | | | | | | | | | | | | |

OY 134 QRETEPRHMQTCQRCER--RYEKERKQOKRYEEOQREDEEYERMKEDNKKRDPQOR 192
      | : : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 214 IRDELPNTVSMQKYDQVKEDKERMRMOEEERLREYEOIQKLRQEBERERQEOE 273
      | : : | | | | | | | | | | | | | | | | | | | | | | | | | | | |

OY 193 EYEDCRRCEQOEPRQOHCQLCRCRQORH 223
      | : : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 274 RQKERERMRQERIRQEYD---EKERQRY 300
      | : : | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESULT 14
US-08-460-428A-2
; Sequence 2, Application US/08460428A
; Patent No. 5912337
; GENERAL INFORMATION:
; APPLICANT: Tripp, Cynthia A.
; APPLICANT: Grievé, Robert B.
; TITLE OF INVENTION: NOVEL PARASITIC HELMINTH
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Sheridan Ross P.C.
; STREET: 1700 Lincoln St., Suite 3500
; CITY: Denver
; STATE: CO
; COUNTRY: U.S.A.
; ZIP: 80203
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/460,428A
; FILING DATE: 02-JUN-1995
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Connell, Gary J.
; REGISTRATION NUMBER: 32,020
; REFERENCE/DOCKET NUMBER: 2618-13-3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 303/863-9700
; TELEFAX: 303/863-0223
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 303 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-460-428A-2

Query Match          4.0%; Score 143; DB 2; Length 303;
Best Local Similarity 24.6%; Pred. No. 3.6e-05;
Matches 52; Conservative 46; Mismatches 87; Indels 26; Gaps 10;
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Db 274 RROKEREMEOERIROEYD---EKERORoy 300

RESULT 15

US-08-458-860A-2
 ; Sequence 2, Application US/08458860A
 ; Patent No. 6100390
 ; GENERAL INFORMATION:
 ; APPLICANT: Frank, Glenn R.
 ; APPLICANT: Tripp, Cynthia A.
 ; APPLICANT: Griever, Robert B.
 ; TITLE OF INVENTION: NOVEL PARASITIC HELMINTH
 ; TITLE OF INVENTION: P220 NUCLEIC ACID MOLECULES
 ; NUMBER OF SEQUENCES: 17
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Sheridan Ross P.C.
 ; STREET: 1700 Lincoln St., Suite 3500
 ; CITY: Denver
 ; STATE: CO
 ; COUNTRY: U.S.A.
 ; ZIP: 80203
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent in Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/458,860A
 ; FILING DATE: 02-JUN-1995
 ; CLASSIFICATION: 336
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Connell, Gary J.
 ; REGISTRATION NUMBER: 32,020
 ; REFERENCE/DOCKET NUMBER: 2618-13-2
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 303/863-9700
 ; TELEFAX: 303/863-0223
 ; INFORMATION FOR SEQ ID NO: 2:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 303 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-458-860A-2

Query Match 4.0%; Score 143; DB 3; Length 303;
 Best Local Similarity 24.6%; Pred. No. 3.6e-05;
 Matches 52; Conservative 46; Mismatches 87; Indels 26; Gaps 10;

QY 32 DROVEECKRQ--CMQLETS--GOMRRC--VSOCDKRPEE----DIDMSKYDNOEDP 78
 DB 97 DDEDLDECSQDERFCRYLAKTLGVHILKICDGDGDSDEMCADDEYITISINNEST 156
 QY 79 QTECCQQRRCRQESGP--RQOQYCOR--CKEICEEE--EYNRQDPQOQYEQCQKH 133
 DB 157 NIRCDDPDQFRC--ENGKCIAGIDRCNRKYDCDDGTDETCFVQALQARGVTVQDNA 213
 QY 134 QRETEPRHMQTCQRCER-RIYEKRRKQKRYEQOREDEDEKEYEERMKEDNKRDPQOR 192
 DB 214 IRDDELPIYTVSMEOKYDYVKEDKERRMQEEEOERLREYEQIQEKLROEEEREROOE 273
 QY 193 EYEDCRRCRCEQOEPROOHQQLNCRQEOOROH 223
 DB 274 RROKEREMEOERIROEYD---EKERORoy 300

